

## APPENDIX L: Comprehensive List of NETN Vital Signs

Comprehensive list of NETN vital signs showing the average score based on pre-workshop ranking. Vital signs were categorized as follows; high priority = 10-12, medium priority = 8-10, and low priority = <8.

Category	Potential Vital Sign	Average Score (max = 12)
Climate	Basic climate	9.8
Disturbance	Disturbance regime: Landscape-scale	9.5
	Disturbance Regime: Drought	6.8
	Disturbance Regime: Fire	8.8
	Disturbance Regime: Flood	7.5
	Disturbance Regime: Storm	6.5
	Disturbance Regime: Wind events	6.3
Hydrology/Geomorphology	Channel morphology	8.5
	Groundwater	6.8
	Hydroperiod	9.7
	Lake morphometry	9.0
	Relative surface elevation	10.5
	Shoreline erosion	8.5
	Spring/seep distribution	7.0
	Spring/seep duration/seasonality/volume	8.0
	Streamflow	10
	Surface water level	9.7
	Tidal patterns	9.0
	Water level	11.0
Abiotic Condition	Stream alkalinity/ANC	10.0
	Water - Conductivity	11.5
	Water - Dissolved oxygen	12.0
	Water - pH	12.0
	Riparian shading	9.5
	Sediment redox potential	6.5
	Soil aggregate stability	8.5
	Soil compaction	8.3
	Substrate composition	9.0
	Water - Total dissolved ions	9.0
	Water - Total organic carbon	7.5
	Water - Temperature	12.0
	Water - Clarity	11.5
	Algal biomass	11.5
Biotic Condition	Amphibians	9.0
	Aquatic Vegetation	11.0
	Canopy species composition	10.7
	Coarse woody debris	9.0
	Fish presence	10.5
	Focal taxa - Alpine zone	8.7
	Focal taxa - Mudflat	8.0

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Biotic Condition	Focal taxa - Rocky intertidal	8.0
	Focal taxa - Rocky shore	8.7
	Focal taxa -Open uplands	8.7
	Focal taxa - Forest interior breeding birds	8.7
	Live legacy trees	9.3
	Ecosystem nitrogen loss	9.3
	Focal taxa – Aquatic macroinvertebrates	9.0
	Predator composition	8.3
	Focal species - Red backed salamanders in forests	8.7
	Shrub/herb composition	9.3
	Snags	9.3
	Focal taxa - Soil biota in forests	6.7
	Focal taxa - Soil biota in plantations	6.0
	Species composition	10.0
	Species migration - climate	7.7
	Focal taxa - Spring ephemerals	8.3
	Stand biomass	9.7
	Stand structure	9.7
	Tree health/vigor	8.7
	Tree mortality	10.3
	Tree sapling regeneration	10.3
	Vegetation – regeneration	8.5
	Vegetation condition	10.0
	Focal species - White tailed deer	9.7
Ecological Process	Forest gap dynamics	6.7
	Nutrient cycling	10.3
	Phenology	8.7
	Productivity	8.7
	Soil respiration	6.0
	Trophic dynamics	7.0
Focal Park Resource	Focal taxa - Amphibians in vernal pools	10.3
	Focal taxa - Bats	6.7
	Focal species - Beavers	10.0
	Focal taxa - Breeding birds	9.3
	Dark night sky	6.3
	Focal taxa - Fish	7.5
	Focal taxa - Grassland birds in fields	8.3
	Focal taxa - Harbor seals	7.7
	Mandated Species	8.0
	Focal taxa - Obligate lepidopterans/odonates in fields	7.3
	Rare community	9.0
	Rare species	8.5
	Viewshed	7.0
	Visibility	8.0
Landscape Context	Buffer - aquatic	10.5
	Patch edge type	10.7
	Landcover - ecological system type	9.7

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	Landcover - fragmentation	8.7
	Landcover - patch size	9.3
	Landcover - proximity	8.5
	Landcover - succession	8.7
	Landuse	11.0
	Minimum dynamic area	7.3
	Buffer - Natural vegetation	9.0
	Park boundary	9.0
	Patch connectivity	9.3
	Patch size distribution	9.3
	Vernal pool density	9.0
	Buffer - wetland	11.3
Management	Park infrastructure	9.0
	Pasture management	10.7
	Trail construction & maintenance	9.0
	Wetland restoration success	8.7
Stressor	Acid stress	10.7
	Acidic deposition	10.0
	Air contaminants	9.3
	Beaver engineering	9.0
	Bioaccumulation (Hg, Pb, PCB, Cd, Zn)	9.0
	Contaminant spills	9.0
	Contamination	9.5
	Invasive exotic earthworms	9.3
	Invasive exotic insect pests & diseases	8.7
	Feral animals/free-ranging pets	8.0
	Fertilizer use	9.0
	Fire suppression	9.5
	Fishing (and shellfish)	8.5
	Forest management	11.3
	Heavy metal deposition	10.0
	Herbicide/pesticide use	9.0
	Herbivore composition	7.7
	Hunting	9.0
	Hydrologic alteration	9.5
	Illegal taking	6.7
	Invasive exotic aquatic vegetation	10.3
	Invasive exotic fish	9.5
	Invasive exotic plant species	10.3
	Invasive exotic terrestrial plants	10.7
	Invasive exotics - other	10.3
	Landscape runoff	9.3
	Livestock	9.0
	Metal contaminants	8.5
	Aquatic microorganisms	10.0
	Noise	6.0
	Ozone pollution	9.0

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Stressor	Particulates	8.0
	Road impacts	10.0
	Road network	11.0
	Road runoff	9.0
	Roadkill	7.7
	Sea level rise	7.8
	Septic systems	9.0
	Social trail formation	7.7
	Soil erosion	10.0
	Trampling disturbance	8.3
	UVB	8.0
	Visitor use	8.5
	Aquatic volatile organic compounds	8.0
	Water withdrawal	8.8
	White tailed deer herbivory	10.0